

BLANK PAGE



IS 10062: 1991

भारतीय मानक

यांत्रिक साधनों द्वारा उत्खनन चट्टान की इकाई दर के लिए विश्लेषण प्रपत्र

(पहला पुनरीक्षण)

Indian Standard

PROFORMA FOR ANALYSIS OF UNIT RATE OF QUARRYING ROCK BY MECHANICAL MEANS

(First Revision)

UDC 69.003.12: 622.271.2

⊕ BIS 1991

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Cost Analysis and Cost Estimates Sectional Committee had been approved by the River Valley Division Council.

Excavation of foundations in rock for various structures, such as dams and power houses, will have to be done generally by mechanical means. Similarly rubble and aggregate are used in building industry, construction of dams and other structures Building of roads and many other purposes have to be quarried by mechanised methods. The mode of excavation and quarrying depends on site conditions, type and use of machinery and equipment.

The cost of quarrying rock, therefore, varies from project to project. The unit rate of quarrying rock is made up of several components, such as cost of labour, drilling, explosives, mucking, other ancillary items, transport and stacking. The costs of some of the above components in turn depend on the machinery and equipment used on the job. A uniform proforma for the analysis of unit rate for quarrying rock will be useful in comparing the rates.

This standard was first published in 1981. The revision of this standard has been taken up in the light of the experience gained during the last nine years in the use of this standard. This standard has been revised and additional items required have been added.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

IS 10062: 1991

Indian Standard

PROFORMA FOR ANALYSIS OF UNIT RATE OF QUARRYING ROCK BY MECHANICAL MEANS

(First Revision)

1 SCOPE

1.1 This standard lays down proforma for analysis of unit rate of quarrying rock by mechanical means.

2 PROFORMA FOR ANALYSIS OF UNIT RATE OF QUARRYING ROCK BY MECHANICAL MEANS

2.1 The proforma recommended for use in analysis of unit rate of quarrying rock by mechanical means is as given in Table 1.

Table 1 Proforma for Analysis of Unit Rate of Quarrying Rock by Mechanical Means

Sl No	Item	Unit	Quantity	Rate	Amount	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i) Roya	alty fees for qua	rrying				
ii) Rem unus	oval of overbur	den, rejected or				

- iii) Drilling
 - a) Machinery and equipment excluding air
 - b) Compressed air
 - c) Drill bits and drilling accessories
 - d) Other material
 - e) Labour
- iv) Blasting
 - a) Machinery and equipment
 - b) Material
 - c) Labour
- v) Transport to stackyard and stacking
 - a) Machinery and equipment
 - b) Material
 - c) Labour
- vi) Quarry roads
- vii) Dewatering arrangement
- viii) Ancillaries and incidental
 - a) Provision (excluding operation and maintenance) of the following:
 - 1) Transportation of labour
 - 2) Labour and staff quarters

Table 1 (Concluded)						
SI No.	Item	Unit	Quantity	Rate	Amount	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
3) S e	ervice and haul roads					
4) E	lectric power system					
5) W	later supply system					
6) S	anitary system					
7) S	urface drainage					
	afety measures including ghting arrangements	fire				
9) C	Other amenities					
	ntenance/operation of it	ems				
c) Supe	ervisory works establish	ment				
ix) Contin	gencies					
x) Quality	y control, including laboes	ratory	·			
include general their ru workm and tel arrange borrov	ead (excluding profit). cestablishment, office stablishment, office stablishment, office stablishment, staff unning and maintenance, ian's compensations, trecommunication facilities ments, interest liabilities from the owner attee charges, etc	tationery, cars and insurance, elephones es, security lities on				
Total	— all in rate			,		
NOTE	s					

- 1 The above items may be expressed on pro-rata basis.
- 2 All items mentioned above shall include depreciation, erection, operation repairs and maintenance and dismantling of machinery where used. All items of labour mentioned above shall include indirect statutory and other benefits payable to the labour.

Standard Mark The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Bureau of Indian Standards

BIS is a statutory institution established under the Bureau of Indian Standards Act, 1986 to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Revision of Indian Standards

Indian Standards are reviewed periodically and revised, when necessary and amendments, if any, are issued from time to time. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition. Comments on this Indian Standard may be sent to BIS giving the following reference:

Doc: No. RVD 19 (35)

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affecte
	· · · · · · · · · · · · · · · · · · ·	

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones: 331 01 31, 331 13 75

Telegrams: Manaksanstha (Common to all Offices)

Regional Offices:

Central: Manak Bhavan, 9 Bahadur Shah Zafar Marg	(331 01 31
NEW DELHI 110002	{ 331 13 75

Eastern: 1/14 C.I.T. Scheme VII M, V.I.P. Road, Maniktola 37 86 62

CALCUTTA 700054

Northern: SCO 445-446, Sector 35-C, CHANDIGARH 160036 53 38 43

Southern: C.I.T. Campus, IV Cross Road, MADRAS 600113 2 35 02 16

Western: Manakalaya, E9 MIDC, Marol, Andheri (East) 6 32 92 95

BOMBAY 400093

Branches: AHMADABAD. BANGALORE. BHOPAL. BHUBANESHWAR. COIMBATORE. FARIDABAD. GHAZIABAD. GUWAHATI. HYDERABAD. JAIPUR. KANPUR. PATNA. THIRUVANANTHAPURAM.